



# Motorola CP1180

## Entry Level Commercial Portable Two-way Radio

### Performance You Can Count On.

The Motorola CP1180 provides your business with a competitive communications edge, enhancing employee efficiency and overall profitability. Affordable and easy to use, the CP1180 helps keep your operations on schedule, maximize job-shift productivity, enhance security and increase overall customer satisfaction. The versatile CP1180 also has a full complement of accessories for customizing the radio to suit your needs.



CP1180

#### Lightweight & Compact

CP1180 which is less than 250gm\* is design to fit comfortably in the hand.

#### Excellent Audio Quality

2000mW audio output, speaker magnetic field reduction, wind-noise reduction and improved RF specifications deliver superior audio quality.

#### Flexible and Durable Battery Life Solutions

The custom CP1180 Li-Ion battery packs are designed and manufactured to ensure durability. An alkaline battery kit is available as an optional accessory.

#### Voice Activation (iVOX/VOX)

Enables convenient hands-free operation without / with optional accessories.

#### Scramble

Build-in voice inversion scrambling for additional layer of privacy.

#### Customizable and Expanded PL/DPL codes

CP1180 offers 84 DPL codes, 84 inverted DPL codes, 39 PL codes, and 6 fully customized PL codes, to set-up many unique talk groups.

#### Channel Aliasing

Provides the ability to give channels user-defined names.

#### Programmable Buttons

The five programmable buttons give users quick access to their most frequently used features such as Scan, Tx power select, or Repeater/Talkaround etc.

#### Tri-Color LED Interface

Convenient interface allows users to identify radio features and status.

#### Customer Programming Software (CPS)\*\*

Provides end-users easy access to change radio settings for channels, programmable buttons, audio profile, scan list and customizable PL codes.

#### General Features:

- 16 Channels
- Accessory Mic Gain
- Battery Save
- Backlit Display
- Power Select – 2/4Watts (UHF) & 2/5Watts (VHF)
- Scan and Scan List
- Monitor
- Time-Out Timer
- USB CPS Interface

A wide range of **Motorola Original®** audio, energy and carrying accessories are available to enhance your productivity.

#### Recommended Accessories:

- Lightweight Headset with Boom Microphone
- Swivel Earpiece with Inline PTT (PTT) Microphone
- Earbud with Clip Microphone and Push-to-Talk (PTT)
- Remote Speaker Microphone

\* With standard Li-Ion battery.

\*\* CPS is sold separately. Windows® XP, Windows 2000 compatible, separate USB cable required.

## CP1180 Radio Specifications#

### General Specifications

	UHF	VHF
Frequency Range	438 to 470 MHz	146 to 174
Audio Output	2000 mW	
Channel Capacity	16 Channels	
Channel Bandwidth	12.5/25 kHz	
Dimensions (H* x W* x D*) w/Standard Li-Ion Battery	4.5 x 2.2 x 1.6 inches (115.6 x 57.6 x 40.5 mm)	
Weight w/Standard Li-Ion Battery w/High Capacity Li-Ion Battery	8.6 oz (244g) 10.3 oz (293g)	
Average Battery Life @ 5/5/90 (with Battery Save On): w/Standard 1100 mAh Li-Ion Battery w/High Capacity 2200 mAh Li-Ion Battery w/Optional Alkaline Battery Accessory	Up to 8.5 Hours Up to 17 Hours Up to 26 Hours	
Power Supply Voltage	7.2 Volts DC (Li-Ion Battery Pack or Alkaline)	

### Transmitter

RF Output High Low	4 Watts 2 Watts	5 Watts 2 Watts
Frequency Stability	< 2 ppm	< 2.5 ppm
Spurs & Harmonics	< -50 dBc	
FM Hum & Noise	-40 dB @ 12.5 kHz with compander disabled -45 dB @ 25.0 kHz	
Modulation Limiting	±2.5 kHz @ 12.5 kHz ±5.0 kHz @ 25.0 kHz	
Adjacent Channel Power	60 dBc	
Radiated Spurious Emissions	< -20 dBm	
Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB (for 12.5 kHz channels compander must be disabled)	
Audio Distortion	< 2%	

### Receiver

Sensitivity (12 dB SINAD)	-122 dBm (0.18 µV)	
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 65 dB @ 25.0 kHz	
Intermodulation Rejection	60 dB	
Spurious Response Rejection (blocking 1 MHz)	80 dB	
Audio Distortion	< 5%	
CSQ Hum & Noise @ 12.5 kHz	-50 dB	
PL Hum & Noise @ 12.5 kHz	-50 dB	
DPL Hum & Noise @ 12.5 kHz	-45 dB	
Radiated Spurious Emissions (< 1 GHz)	< -54 dBm @ 10m	
Radiated Spurious Emissions (> 1 GHz)	< -41.3 dBm @ 10m	
Audio Output @ < 5% Distortion	2 W	

### Military Specifications

Standard	MIL 810 C Methods/Procedures	MIL 810 D Methods/Procedures	MIL 810 E Methods/Procedures	MIL 810 F Methods/Procedures
Low Pressure	500.1 / Procedure 1	500.2 / Procedure 2	500.3 / Procedure 2	500.4 / Procedure 1
High Temperature	501.1 / Procedure 1,2	501.2 / Procedure 1,2	501.3 / Procedure 1,2	501.4 / Procedure 1,2
Low Temperature	502.1 / Procedure 1	502.2 / Procedure 1,2	502.3 / Procedure 1,2	501.4 / Procedure 1,2
Temperature Shock	503.1 / Procedure 1	503.2 / Procedure 1	503.3 / Procedure 1	503.4 / Procedure 1
Solar Radiation	505.1 / Procedure 1	505.2 / Procedure 1	505.3 / Procedure 1	505.4 / Procedure 1
Rain	506.1 / Procedure 1,2	506.2 / Procedure 1,2	506.3 / Procedure 1,2	506.4 / Procedure 1
Humidity	507.1 / Procedure 2	507.2 / Procedure 2,3	507.3 / Procedure 2,3	507.4 / Procedure 3
Salt Fog	509.1 / Procedure 1	509.2 / Procedure 1	509.3 / Procedure 1	509.4 / Procedure 1
Dust	510.1 / Procedure 1	510.2 / Procedure 1	510.3 / Procedure 1	510.4 / Procedure 1
Vibration	514.2 / Procedure 8,10	514.3 / Procedure 1	514.4 / Procedure 1	514.5 / Procedure 1
Shock	516.2 / Procedure 1,2,5	516.3 / Procedure 1,4	516.4 / Procedure 1,4	516.5 / Procedure 1

### Environmental Specifications

Operating Temperature	-30°C to +60°C (Radio)
Sealing	IP55
Shock & Vibration	Polycarbonate Housing passes EIA 603
Dust & Humidity	Satisfied EIA 603

\*Specifications subject to change without notice.

All specifications shown are typical. Radio meets applicable regulatory requirements.



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